

WEST Search History

DATE: Wednesday, March 09, 2005

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L25	L24 and ((different or unique or individual or respective) with (spatial\$4 with (sensitiv\$4 or distribution)))	10
<input type="checkbox"/>	L24	L23 and (parallel)	13
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<input type="checkbox"/>	L14	L13 and ((gradient or phase or slice) with (modulat\$4))	26
<input type="checkbox"/>	L13	L12 and (receive\$4 or detect\$4 or sens\$4 or tranceiv\$4 or transceiv\$4)	50
<input type="checkbox"/>	L12	L11 and ((gradient or phase or slice) with encod\$4)	50
<input type="checkbox"/>	L11	L10 and ("multi" or multiplying or multiplied or multiple)	51
<input type="checkbox"/>	L10	L9 and (invert\$4 or inversion or alternat\$4 or opposite or revers\$4)	54
<input type="checkbox"/>	L9	L8 and (modulat\$4)	61
<input type="checkbox"/>	L8	L7 and (block\$3 or group or "set" or "subset" or "sub-block" or "sub-sampl\$4" or "sub-set")	114
<input type="checkbox"/>	L7	L6 and (spatial\$4)	118
<input type="checkbox"/>	L6	L5 and (k-space or kspace or "k sapce" or "kx" or "ky" or "kz" or raw)	127
<input type="checkbox"/>	L5	L4 and (encod\$4)	241
<input type="checkbox"/>	L4	L3 and (matrix or ((two or "2")with dimension\$5 with array))	393
<input type="checkbox"/>	L3	L2 and (coil with (sensitiv\$4 or distribution))	1848
<input type="checkbox"/>	L2	L1 and (rf or (radio adj frequency) or radio-frequency or radiofrequency)	28026
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	198650

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 13 of 13 returned.

☐ 1. Document ID: US 20040155652 A1

Using default format because multiple data bases are involved.

L23: Entry 1 of 13

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040155652

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040155652 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson, Daniel K.	Newton	MA	US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	New D
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☐ 2. Document ID: US 20030076099 A1

L23: Entry 2 of 13

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw U.
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☐ 3. Document ID: US 20030030437 A1

L23: Entry 3 of 13

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030437

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030030437 A1

TITLE: Magnetic resonance imaging using smash

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bydder, Mark	Ealing		GB	
Hajnal, Joseph V.	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw U.
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☐ 4. Document ID: US 20020158632 A1

L23: Entry 4 of 13

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw U.
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☐ 5. Document ID: US 20020156362 A1

L23: Entry 5 of 13

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 6. Document ID: US 6841998 B1

L23: Entry 6 of 13

File: USPT

Jan 11, 2005

US-PAT-NO: 6841998
DOCUMENT-IDENTIFIER: US 6841998 B1

TITLE: Magnetic resonance imaging method and apparatus employing partial parallel acquisition, wherein each coil produces a complete k-space datasheet

DATE-ISSUED: January 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Griswold; Mark	97318 Kitzingen			DE

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U
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☐ 7. Document ID: US 6717406 B2

L23: Entry 7 of 13

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406
DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Sodickson; Daniel K.

Newton MA

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 8. Document ID: US 6549799 B2

L23: Entry 8 of 13

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799

DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 9. Document ID: US 6400151 B1

L23: Entry 9 of 13

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151

DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haase; Axel	97222 Rimpf			DE
Jakob; Peter M.	97074 Wurzburg			DE
Hillenbrand; Claudia	97720 Nudlingen			DE
Hahn; Dietbert	97273 Kurnach			DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 10. Document ID: US 6366092 B1

L23: Entry 10 of 13

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
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☐ 11. Document ID: US 6289232 B1

L23: Entry 11 of 13

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
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☐ 12. Document ID: US 5910728 A

L23: Entry 12 of 13

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging
with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMC	Draw D
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☐ 13. Document ID: US 5488299 A

L23: Entry 13 of 13

File: USPT

Jan 30, 1996

US-PAT-NO: 5488299

DOCUMENT-IDENTIFIER: US 5488299 A

TITLE: Nuclear magnetic resonance imaging with improved image quality and operation efficiency

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Masafumi	Tochigi			JP
Kawamoto; Hiromi	Tochigi			JP

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMC	Draw D
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Term	Documents
BASE	3661807
BASIS	1117532
BASES	396130
BASIS	1117532
BASE	3661807
BASES	396130
GAUSSIAN	35079
GAUSSIANS	719
WAVELET	9810
WAVELETS	3137
WAVE-LET	28

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040155652 A1

Using default format because multiple data bases are involved.

L25: Entry 1 of 10

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040155652

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040155652 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson, Daniel K.	Newton	MA	US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 20030076099 A1

L25: Entry 2 of 10

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030076099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030076099 A1

TITLE: Reduced signal to noise ratio array coil image

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hajnal, Joseph V.	London		GB	
Bydder, Mark	London		GB	
Larkman, David J.	London		GB	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D.
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☐ 3. Document ID: US 20020158632 A1

L25: Entry 3 of 10

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020158632
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020158632 A1

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sodickson MD Ph.D., Daniel K.	Cambridge	MA	US	

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D.
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☐ 4. Document ID: US 20020156362 A1

L25: Entry 4 of 10

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156362
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020156362 A1

TITLE: Concurrent MRI of multiple objects

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bock, Nicholas A.	London		CA	
Henkelman, R. Mark	Toronto		CA	

US-CL-CURRENT: 600/410; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D.
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☐ 5. Document ID: US 6717406 B2

L25: Entry 5 of 10

File: USPT

Apr 6, 2004

US-PAT-NO: 6717406
DOCUMENT-IDENTIFIER: US 6717406 B2

TITLE: Parallel magnetic resonance imaging techniques using radiofrequency coil arrays

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel K.	Newton	MA		

US-CL-CURRENT: 324/307; 324/309, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 6. Document ID: US 6549799 B2

L25: Entry 6 of 10

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799

DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Pub	Draw
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☐ 7. Document ID: US 6400151 B1

L25: Entry 7 of 10

File: USPT

Jun 4, 2002

US-PAT-NO: 6400151

DOCUMENT-IDENTIFIER: US 6400151 B1

TITLE: Method and apparatus for the acquisition of data for magnetic resonance imaging

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haase; Axel	97222 Rimpar			DE
Jakob; Peter M.	97074 Wurzburg			DE
Hillenbrand; Claudia	97720 Nudlingen			DE

Hahn; Dietbert

97273 Kurnach

DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 8. Document ID: US 6366092 B1

L25: Entry 8 of 10

File: USPT

Apr 2, 2002

US-PAT-NO: 6366092

DOCUMENT-IDENTIFIER: US 6366092 B1

TITLE: Magnetic resonance imaging

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ehnholm; Gosta J	Helsinki			FI
Young; Ian Robert	Marlborough			GB

US-CL-CURRENT: 324/309; 324/300, 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 9. Document ID: US 6289232 B1

L25: Entry 9 of 10

File: USPT

Sep 11, 2001

US-PAT-NO: 6289232

DOCUMENT-IDENTIFIER: US 6289232 B1

TITLE: Coil array autocalibration MR imaging

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jakob; Peter M.	Brookline Village	MA		
Sodickson; Daniel K.	Cambridge	MA		
Griswold; Mark	Brookline	MA		

US-CL-CURRENT: 600/410; 324/307, 324/309, 324/318, 324/322, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 10. Document ID: US 5910728 A

L25: Entry 10 of 10

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging
with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS

Term	Documents
DIFFERENT	4413394
DIFFERENTS	272
UNIQUE	587857
UNIQUES	100
INDIVIUAL	131
INDIVIUALS	10
RESPECTIVE	2793056
RESPECTIVES	386
DISTRIBUTION	1173729
DISTRIBUTIONS	74185
SPATIAL\$4	0
(L24 AND ((DIFFERENT OR UNIQUE OR INDIVIUAL OR RESPECTIVE) WITH (SPATIAL\$4 WITH (SENSITIV\$4 OR DISTRIBUTION))))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	10

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